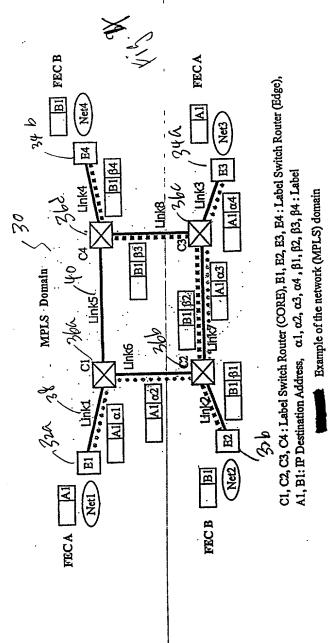


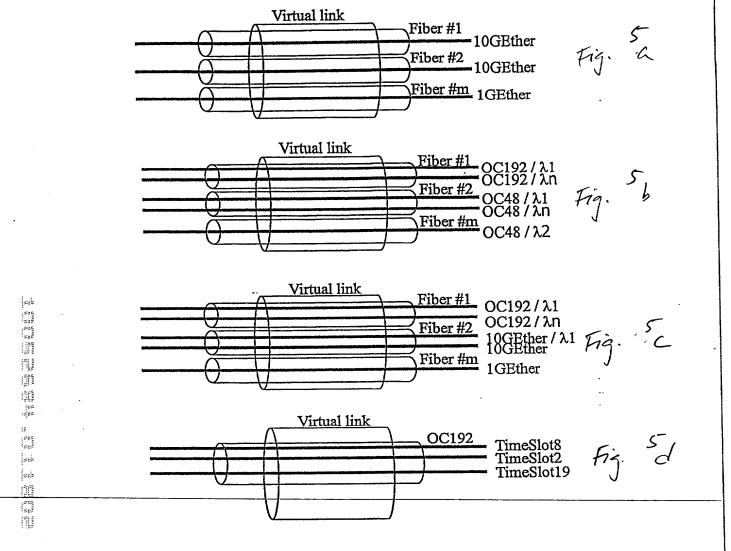
Fig.1

Fig.2

Fig.3



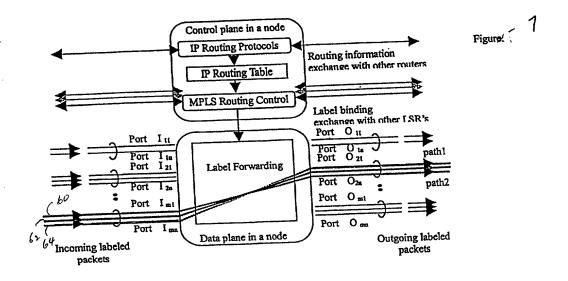
٦

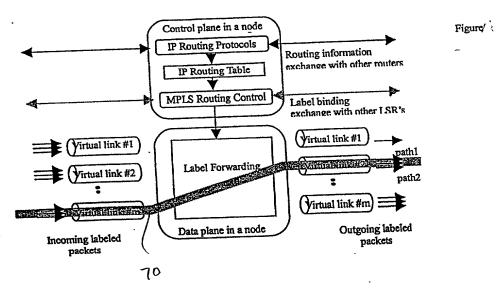


Examples of composition of physical and logical links

in i

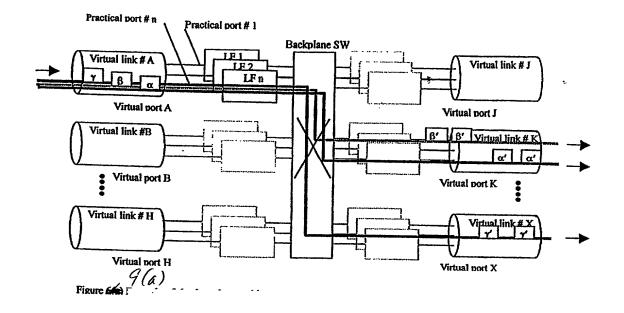
Marie Trans

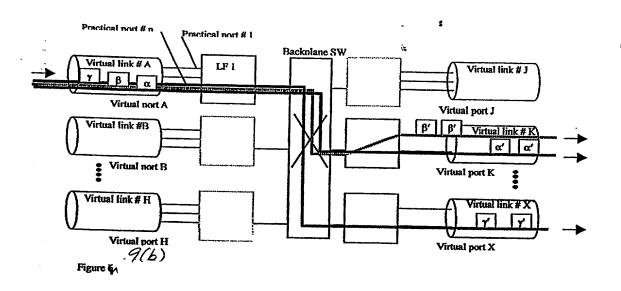




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L





94 40 az Label Forwarding Table maintained by the MPLS control plane Output virtual port # Output practical port# Input Label Input Input virtual port# Output Label practical port # α'. K n α: $f(\alpha')$ K $f(\beta')$ n n $f(\gamma')$ 2 'B: f(δ') \mathbf{B} 1 f(ε') H 2 $f(\zeta')$ J 1 $f(\eta')$ K 5 $f(\sigma')$ n f(k')

Figure / Label Forwarding Table and mechanism to decide practical output port at the sending LSR

90 46 100 98 Label Forwarding Table maintained by the MPLS control plane Input Label 14 Output Label Output virtual port# Hash value of Input Output Tag incoming label practical port# virtual port# practical port# 0 $f(\alpha')$ \mathbf{K} f(a") \mathbf{n} 0 f(B') K f(B") n O $f(\gamma')$ f (") n $f(\delta')$ 2 f(8") В f(E') 1 f(ε") 0 f((') 2 0 f((") \mathbf{H}_{i} f(n') 1 J f(n") 0 $f(\sigma')$ 5 * ¢σ′′ f(o") K X $f(\kappa')$ f(k") n

Figure Fast lookup mechanism using a hash